LLL	IIIIIIIII	BBBBBBBBBBBB	RRRRRRRRRRR	TTTTTTTTTTTTTTT	LLL
LLL	IIIIIIIII	BBBBBBBBBBBB	RRRRRRRRRRR	TTTTTTTTTTTTTTT	LLL
LLL	IIIIIIIII	8888888888	RRRRRRRRRRR	1111111111111111	III
LLL	III	888 888	RRR RRR	TTT	LLL
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LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	111	LLL
LLL	III	8888888888	RRRRRRRRRRR	TTT	LLL
LLL	III	BBBBBBBBBBBB	RRRRRRRRRRR	TTT	LLL
LLL	ĪĪĪ	8888888888	RRRRRRRRRRR	TTT	iii
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iii	111	888 888	RRR RRR	tit	LLL
ill	111	888 888	RRR RRR		
	***	000 000		III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	TTT	LLL
LLLLLLLLLLLLLL	IIIIIIIII	88888888888	RRR RRR	TTT	LLLLLLLLLLLLLLL
LLLLLLLLLLLLLL	IIIIIIIII	BBBBBBBBBBBB	RRR RRR	TTT	LLLLLLLLLLLLLLLL
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIIIII	88888888888	RRR RRR	ŤŤŤ	ILLLLLLLLLLLLLL

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File: RTLPSECT.REQ Edit: JAW1010 This file, RTLPSECT.REQ, defines the macros for declaring RTL psects.

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## Revision History:

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01-2 - Data PIC, NOSHR. TNH 19-Dec-77
01-03 - Make OWN be NOSHARE. TNH 6-Jan-77.
01-5 - Make OWN be PIC. TNH 27-June-78.
01-6 - Change name to RTLPSECT.REQ. JBS 14-NOV-78
1-007 - Add copyright notice. JBS 16-NOV-78
1-008 - Change PSECT names to start with "\_", to conform to new RTL standard. JBS 21-DEC-78
1-009 - Remove the PRINT statement, for the new BLISS compiler.
JBS 02-OCT-1979

1-010 - Add optional second argument to DECLARE\_PSECTS, to allow control of OWN PSECT alignment boundary. See FOR\$\$EXIT\_HANDL for further information. JAW 23-FEB-1981

! Declare PSECIS for all Library modules.

Macro to declare PSECTs for a facility, given the facility prefix. The declarations are very dependent on the linker algorithm for sorting PSECTs. Currently that algorithm divides PSECTs into four groups depending on WRITE vs NOWRITE and EXECUTE vs NOEXECUTE. Therefore in order to get compact programs, PLIT is made EXECUTABLE to get is close to CODE.

```
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RTLPSECT.REQ: 1
                Example of use:
   PSECT DECLARATIONS:
                DECLARE_PSECTS (FOR):
                                                                ! Declare PSECTs for FOR$ facility
    Note: since the methodology manual does not yet specify where PSECT
   declarations go in a module, they are put between EQUATED SYMBOLS and OWN STORAGE (which is after INCLUDE files).
MACRO
        DECLARE_PSECTS (FAC, BOUND) =
                PSECT
                         CODE = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING MODE (WORD_RELATIVE)),
PLIT = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING MODE (WORD_RELATIVE)),
OWN = %NAME ('_', FAC, $DATA) (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE)

%IF %LENGTH GEQU 2 %THEN, ALIGN(BOUND) %FI),
GLOBAL = %NAME ('_', FAC, $DATA) (READ, WRITE, NOEXECUTE, NOSHARE, PIC, ADDRESSING_MODE (LONG_RELATIVE)) %;
   Define macro for declaring PIC (position independent) dispatch tables as OWN storage (would be better if BIND table = PLIT (...), however,
    BLISS doesn't allow table to be referenced inside PLIT definition,
so use OWN storage instead). The OWN storage is temporarily defined to be same PSECT as code, then DECLARE_PSECTS should be called again to restore OWN to _fac$DATA PSECT.
MACRO
        DISPATCH PSECTS (FAC) = PSECT
                         CODE = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
PLIT = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
OWN = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)),
GLOBAL = %NAME ('_', FAC, $CODE) (READ, NOWRITE, EXECUTE, SHARE, PIC, ADDRESSING_MODE (WORD_RELATIVE)) %;
                End of file RTLPSECT.REQ
```

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